

**I Claim:**

1. A method of forming a conformable contact mask, comprising:
  - a. applying a liquid composition to a support structure, the liquid composition being applied such that the composition has a desired thickness over the support structure;
  - b. curing the composition to form a solidified and flexible member on the support structure;
  - c. laser ablating a selected portion of the flexible member, to form a mask having a desired pattern, the pattern comprising at least one opening extending through the flexible member;
  - d. wherein the liquid composition comprises:
    - i) a first component comprising molecules having at least one aromatic ring attached to a silicone backbone that possesses a plurality of SiH functional groups;
    - ii) a second component comprising molecules having a ring structured polyimide with a plurality of double bond functional groups; and
    - iii) a catalyst.
2. The method of claim 1 wherein the liquid composition additionally comprises a third component comprising molecules having an aromatic ring backbone with a plurality of double bond functional groups.
3. The method of claim 2 wherein the liquid composition additionally comprises a fourth component comprising molecules having an aromatic ring backbone with a plurality of SiH functional groups.
4. The method of claim 1 wherein the catalyst comprises a platinum catalyst.
5. The method of claim 1 wherein the curing of the composition comprises elevating a temperature of composition.

6. A method of forming a conformable contact mask, comprising:
  - a. applying a liquid composition to a support structure, the liquid composition being applied such that the composition has a desired thickness over the support structure;
  - b. curing the composition to form a solidified and flexible member on the support structure;
  - c. laser ablating a selected portion of the flexible member, to form a mask having a desired pattern, the pattern comprising at least one opening that extends through the flexible member;wherein the liquid composition comprises:
  - i) a first component comprising molecules having a silicone backbone and a plurality of SiH functional groups and having a plurality of organic compatibility enhancing groups having structure R;
  - ii) a second component comprising flexible cyclic molecules having a plurality of double bond functional groups, and.
  - iii) a catalyst.
7. The method of claim 6 additionally comprising providing a third component comprising molecules having a plurality of SiH functional groups and having a structure compatible with R.
8. The method of claim 7 additionally comprising providing a fourth component comprising radiation absorbing molecules having a plurality of double bond functional groups and having a structure compatible with R.
9. The method of claim 6 wherein the catalyst comprises a platinum catalyst.
10. The method of claim 6 wherein the molecules having a plurality of double bond functional groups and having a structure compatible with R comprise a plurality of structures compatible with R.

11. A method of forming a conformable contact mask, comprising:
  - a. providing a cured sheet of conformable material having a desired thickness;
  - b. bonding the sheet of conformable material to a support structure;
  - c. laser ablating a selected portion of the flexible member, to form a mask having a desired pattern, the pattern comprising at least one opening extending through the flexible member;
  - d. wherein the conformable material comprises:
    - i) a first component comprising molecules having at least one aromatic ring attached to a silicone backbone that possesses a plurality of SiH functional groups; and
    - ii) a second component comprising molecules having a ring structured polyimide with a plurality of double bond functional groups.
12. The method of claim 11 wherein the liquid composition additionally comprises a third component comprising molecules having an aromatic ring backbone with a plurality of double bond functional groups.
13. The method of claim 12 wherein the liquid composition additionally comprises a fourth component comprising molecules having an aromatic ring backbone with a plurality of SiH functional groups.
14. The method of claim 11 wherein the conformable material comprises a catalyst.
15. The method of claim 11 wherein the curing of the composition comprises elevating a temperature of composition.
16. A method of forming a conformable contact mask, comprising:

- a. providing a cured sheet of conformable material having a desired thickness;
- b. bonding the sheet of conformable material to a support structure;
- c. laser ablating a selected portion of the flexible member, to form a mask having a desired pattern, the pattern comprising at least one opening that extends through the flexible member;

wherein the liquid composition comprises:

- i) a first component comprising molecules having a silicone backbone and a plurality of SiH functional groups and having a plurality of organic compatibility enhancing groups having structure R; and
- ii) a second component comprising flexible cyclic molecules having a plurality of double bond functional groups.

17. The method of claim 16 additionally comprising providing a third component comprising molecules having a plurality of SiH functional groups and having a structure compatible with R.

18. The method of claim 17 additionally comprising providing a fourth component comprising radiation absorbing molecules having a plurality of double bond functional groups and having a structure compatible with R.

19. The method of claim 16 wherein the conformable material comprises a catalyst.

20. The method of claim 16 wherein the molecules having a plurality of double bond functional groups and having a structure compatible with R comprise a plurality of structures compatible with R.